

FO3595

Off-Axis Fiber Optic Rotary Joint

Description

When the centerline of rotation must be occupied by some other device, Moog Components Group has an off-axis fiber optic rotary for those unique applications. While these designs are not as simple to use as the on-axis devices, they do allow off-axis rotary systems to achieve very high data rates.

The FO3595 is our basic off-axis fiber optic rotary joint offering. The design has a four inch through bore and can have as many as six bidirectional optical circuits. The design also features an optional intergral two circuit electrical slip ring. Moog Components Group offers the unique electronics required to pass signals through this device. If you are interested in an off-axis FORJ, please contact our applications engineers for assistance.

Features

- Provides rotary coupling for multimode fiber links
- Completely bidirectional
- The unit may be hard mounted to either the inner or outer housing and soft mounted or de-rotated on the opposite housing using the built-in features



Typical Applications

- Computerized pipe bending
- Winches
- Marine propulsion systems
- Turrets
- Four axis milling machines
- Industrial and military

Kontakt: Schweiz und Fürstentum Liechtenstein

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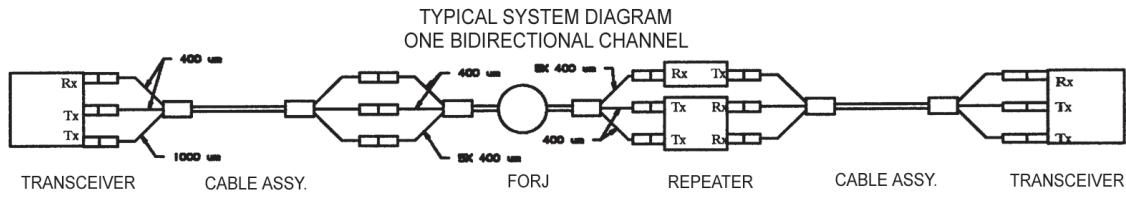
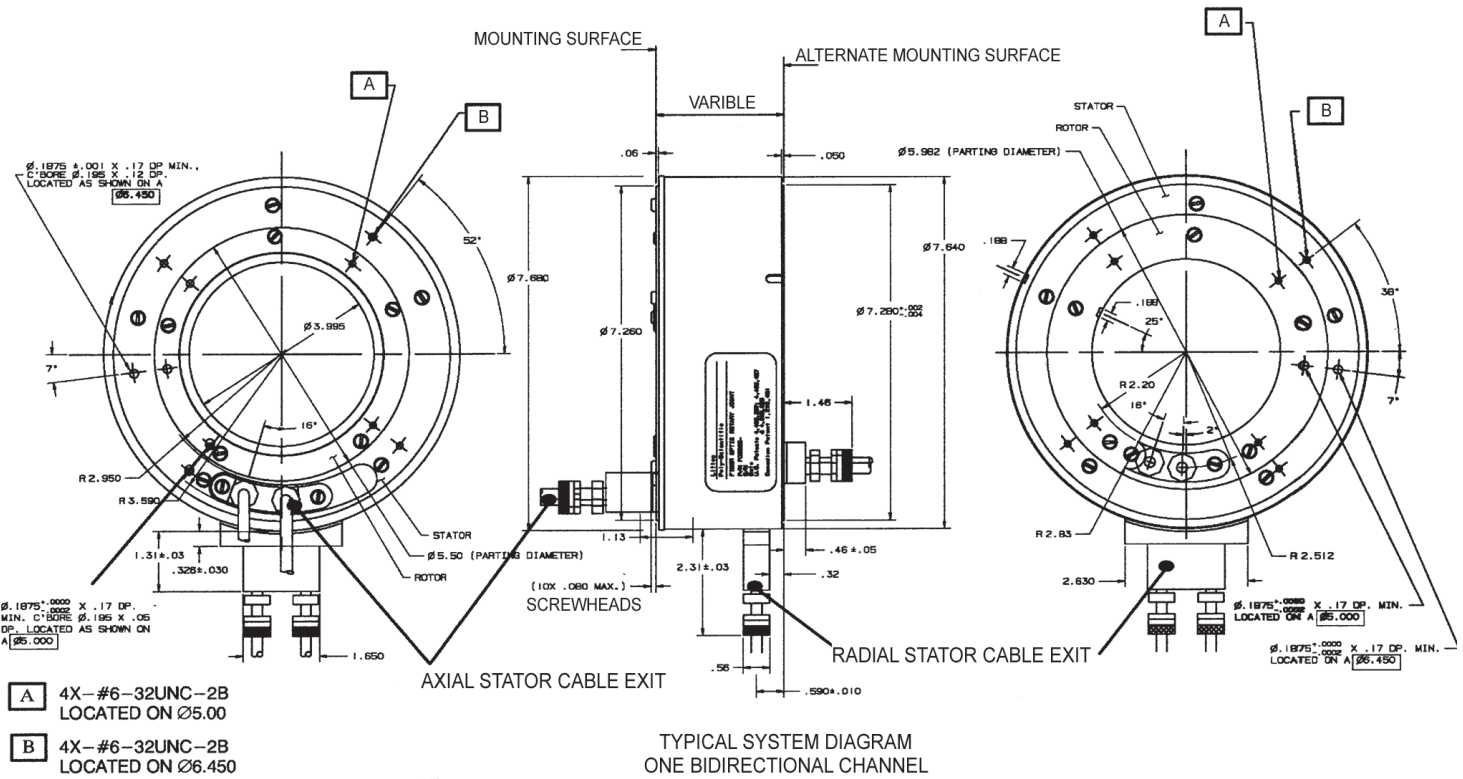
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Fiber Optic Rotary Joint (FORJ)

Specifications		Options
Data Rate	50MBITS / sec NRZ max	<ul style="list-style-type: none"> Cable exits radially or axially on stator housing Optical bidirectional channels (1-6) Internal electrical slip ring (1 bidirectional optical and 4 electrical circuits (3A)) Customer specified pigtail length (2 meters max) Heater for extended low temperature operation
Torque	1 ft-lb max	
Side Loading	5 pounds maximum (continuous)	
Bend Radius	2.0 inch minimum	
Sealing	Environmental	
Rotation Rate	60 rpm max	
Operating Temperature	-0°C to +71°C	
Thermal Shock	MIL-STD-810 method 503.1	
Vibration	MIL-STD-810 method 514.2 Figure 514.2-2 curve F	
Shock	MIL-STD-810 method 516.2 procedure I Figure 516.2-2, 30 g's, 11ms duration	
Humidity	MIL-STD-810 method 507.1 procedure II	



Notes:
 Modifications to the basic design are possible to alter or enhance operating characteristics. Consult factory for specific applications.
 All dimensions are in inches and tolerance is ± 0.01 unless otherwise noted.

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